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NOTICE OF ALLOWANCE AND FEE(S) DUE

55694

7590

12/01/2010

DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W. SUITE 1100 WASHINGTON, DC 20005-1209 EXAMINER

HOLLWEG, THOMAS A

ART UNIT PAPER NUMBER

2879

DATE MAILED: 12/01/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,602	08/16/2006	Hiroyuki Kyushima	46884-5500	2693

TITLE OF INVENTION: PHOTOMULTIPLIER AND ITS MANUFACTURING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

indicated unless correct maintenance fee notifica	ted below or directed other	herwise in Block 1, by (t correspondence address as parate "FEE ADDRESS" for	
CURRENT CORRESPOND	DENCE ADDRESS (Note: Use Bi	lock 1 for any change of address)	Feet	(c) Transmittal This	certificate cannot be used	for domestic mailings of the for any other accompanying ent or formal drawing, must	
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1500 K STREE' SUITE 1100		(DC)	I hei State addr trans	reby certify that thi	s Fee(s) Transmittal is bein	sinission g deposited with the United rst class mail in an envelope above, or being facsimile date indicated below.	
WASHINGTON	N, DC 20005-1209					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/589,602	08/16/2006	•	Hiroyuki Kyushima		46884-5500	2693	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2011	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
HOLLWEG,	THOMAS A	2879	313-536000				
1. Change of correspond CFR 1.363).	lence address or indicatio	n of "Fee Address" (37	2. For printing on the patent front page, list				
Change of corresp	oondence address (or Cha B/122) attached.	ange of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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PTO/SB/47; Rev 03-0 Number is required	02 or more recent) attach •	ned. Use of a Customer	2 registered patent attor listed, no name will be	rneys or agents. If r printed.	no name is 3		
3. ASSIGNEE NAME A	AND RESIDENCE DATA	A TO BE PRINTED ON	I THE PATENT (print or typ	pe)			
PLEASE NOTE: Un	lless an assignee is ident	ified below, no assignee	data will appear on the pa T a substitute for filing an	atent. If an assigne	ee is identified below, the	document has been filed for	
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Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporation or other private gr	coup entity 🔲 Government	
4a. The following fee(s)	are submitted:	41	— •	se first reapply an	y previously paid issue fee	shown above)	
Issue Fee			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
			overpayment, to Depo	sit Account Numbe	r (enclose :	an extra copy of this form).	
	atus (from status indicate ns SMALL ENTITY stati	*	☐ b. Applicant is no long	ger claiming SMAL	L ENTITY status. See 37 C	CFR 1.27(g)(2).	
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be accepte	d from anyone other than t			the assignee or other party in	
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Typed or printed name			Registration No				
This collection of inform	nation is required by 37 C	CFR 1.311. The information	on is required to obtain or r	etain a benefit by th	ne public which is to file (an	nd by the USPTO to process)	
an application. Confident submitting the complete	ntiality is governed by 35 d application form to the	U.S.C. 122 and 37 CFR USPTO. Time will vary	1.14. This collection is est depending upon the indiv	imated to take 12 n idual case. Any co	ninutes to complete, includi mments on the amount of the	ng gathering, preparing, and ime you require to complete partment of Commerce, P.O.	
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10/589,602	08/16/2006	Hiroyuki Kyushima	46884-5500	2693
55694 75	590 12/01/2010		EXAM	INER
DRINKER BIDI	DLE & REATH (DC	HOLLWEG,	THOMAS A	
1500 K STREET, N.W.			ART UNIT	PAPER NUMBER
SUITE 1100 WASHINGTON, I	OC 20005-1209		2879 DATE MAILED: 12/01/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 566 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 566 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/589.602	KYUSHIMA ET AL.
Notice of Allowability	Examiner	Art Unit
	Thomas A. Hollweg	2879
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s and MPEP 1308.	this application. If not included nication will be mailed in due course. THIS ubject to withdrawal from issue at the initiative
2. ☑ The allowed claim(s) is/are <u>1-3,5,6,9,11,13,15,17 and 23</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Applicatio	n No
International Bureau (PCT Rule 17.2(a)).		and had one outgo approach in the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus		deciaration is deficient.
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	ı (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
 (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 		
each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./l 7. ☐ Examiner's	formal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance
	5	'

Application/Control Number: 10/589,602 Page 2

Art Unit: 2879

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 2, 2010, has been entered.
- 2. Claims 4 and 10 are canceled. No claims are added. Claims 1-3, 5, 6, 9, 11, 13, 15, 17 and 23 are currently pending.
- 3. The amendments to claims 1 and 23 correcting minor informalities are acknowledged. The objections to claims 1 and 23 are withdrawn.
- 4. The amendments to claim 1 regarding the 35 U.S.C. § 112, second paragraph, rejections are acknowledged. These rejections are withdrawn.

Allowable Subject Matter

- 5. Claims 1-3, 5, 6, 9, 11, 13, 15, 17 and 23 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:
- 7. Regarding amended independent claim 1, the prior art of record does not teach or suggest the photomultiplier described, further comprising a photocathode electrode having one end being in direct contact with said photocathode, and the other end being exposed to the external of said enclosure; a first through hole accommodating said photocathode electrode therein and extending along a direction orthogonal to the flat

Application/Control Number: 10/589,602 Page 3

Art Unit: 2879

part of said inner wall; wherein said first through hole is provided in any one of said lower and upper frames while being apart from said side wall frame, whereby said photocathode electrode accommodated in said first through hole is electrically separated from said side wall frame, and an anode electrode having the claimed arrangement similar to the claimed arrangement of the photocathode electrode, together with the other claim limitations.

- 8. Claims 2, 3, 5, 6, 9, 11, 13, 15, 17 and 232-5 and 7-15 are allowable due to their dependency.
- 9. Any comments considered necessary by the Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of reasons for Allowance."

Conclusion

- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Hollweg whose telephone number is (571) 270-1739. The examiner can normally be reached on Monday through Friday 7:30am-5:00pm E.S.T..
- 11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Application/Control Number: 10/589,602 Page 4

Art Unit: 2879

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas Hollweg/ Patent Examiner, Art Unit 2879

/NIMESHKUMAR D. PATEL/ Supervisory Patent Examiner, Art Unit 2879